

# Pre-Mining Survey Map (PMSM) and Form

Eastern Kentucky (KYGE40000)

9/10/2019



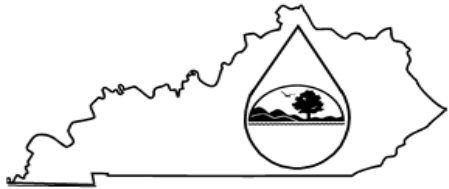
# Who Must Submit

- KYGE4 – Eastern Kentucky
  - New and expanded active surface mining areas draining to a continuous (previously called in-stream) sediment control structure (for the purposes of this permit, continuous sediment control structure are those sediment control structures that are constructed within the natural drainage way of a water body, or have a continuous discharge or have an average discharge duration of 96 hours or more).
  - New and expanded coal preparation plant
  - New underground mine discharge
  - New and expanded discharge to an OSRW w/ T&E (segments and basins)



# PMSM Form

## FORM PMSM

	<p><b>KENTUCKY POLLUTION DISCHARGE ELIMINATION SYSTEM (KPDES)</b></p> <p><b>Pre-Mining Survey Map (PMSM) Form For In-stream Monitoring Permit Requirements</b></p>		
<p>New or expanded active surface mining areas draining to a continuous flow sediment control structure, new or expanded underground mines, and/or new or expanded coal preparation plants impose in-stream monitoring requirements as one means of determining compliance with the narrative water quality standard for specific conductance. These monitoring requirements include physical, chemical and biological data to be collected for each receiving stream impacted by the permitted activity. The permittee is required to conduct a minimum of a single pre-mining sampling event to establish the baseline conditions to which subsequent annual sampling events are compared to determine compliance. To ensure the data collected is complete, accurate, and representative of the receiving stream, the permittee is required to develop and submit a Pre-Mining Survey PMSM form and map for review and acceptance.</p> <p>Physical/chemical samples are to be collected in accordance with the following Standard Operating Procedures (SOPs): (1) Sampling surface waters, (2) In situ Water Quality Measurements and Meter Calibration for Lotic Waters, (3) Sample Control and Management, and (4) Measuring Stream Discharge. Biological sampling shall be performed annually during the appropriate index period; i.e. Headwater – Feb 15th thru May 31st; Wadeable – May 1 thru Sept 30th. Biological samples shall be collected in accordance with: (1) Methods for Conducting Resource Extraction Individual Permit Intensive Surveys in Non-OSRW Streams of the Eastern Kentucky Coalfields; (2) Methods for Conducting Resource Extraction Individual Permit Intensive Surveys in Non-OSRW Streams of the Western Kentucky Coalfields. All biological activities shall be performed by a qualified biologist. These SOPs may be found at: <a href="https://eec.ky.gov/Environmental-Protection/Water/PermitCert/KPDES/Pages/Mining.aspx">https://eec.ky.gov/Environmental-Protection/Water/PermitCert/KPDES/Pages/Mining.aspx</a>.</p> <p>To assist the permittee in developing a PMSM and to allow for an expeditious review by DOW, this form has been developed to ensure all necessary information has been included. In addition to this form, the permittee shall attach the following document:</p> <ul style="list-style-type: none"><li>• A PMSM Map illustrating all existing and proposed outfalls associated with the in-stream monitoring, hollow fills, and in-stream monitoring point locations.</li></ul>			
<p><b>Reason for Submittal</b> (include the reason for the in-stream monitoring requirement):</p>			
<p><b>SECTION I – PERMIT INFORMATION</b></p>			
Agency Interest ID: <input type="text"/>	KPDES Permit ID: <input type="text"/>	SMCRA Permit No.: <input type="text"/>	DNR Actions: <input type="text"/>
<p><b>SECTION II – PERMITTEE INFORMATION</b></p>			
Company Name: <input type="text"/>		Contact Name: <input type="text"/>	
Mailing Address: <input type="text"/>	City: <input type="text"/>	County: <input type="text"/>	State: <input type="text"/> Zip Code: <input type="text"/>
E-mail Address: <input type="text"/>		Telephone Number: <input type="text"/>	
Facility coordinates:	Latitude: <input type="text"/>	Longitude: <input type="text"/>	

Watch for updated SOPs



# PMSM Form

## FORM PMSM

SECTION III – IN-STREAM MONITORING LOCATIONS INFORMATION					
ID Number	Receiving Water Name	Latitude	Longitude	Outfalls Covered	

At a minimum, one in-stream monitoring point directly below the outfall along with one downstream monitoring point of the receiving stream located after the confluence but above any tributaries is required. **If two locations are not feasible, please explain in the comments field below.**

**Comments:**

SECTION V –PMSM FORM PREPARER INFORMATION			
First Name:		Last Name:	
Mailing Address:		City:	
eMail Address:		State:	
Business Phone:		Company Name:	
Zip Code:			

SECTION IV – CERTIFICATION	
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information submitted, is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	
SIGNATURE:	Title:
First Name:	Last Name:
eMail Address:	Signature Date:
Business Phone:	

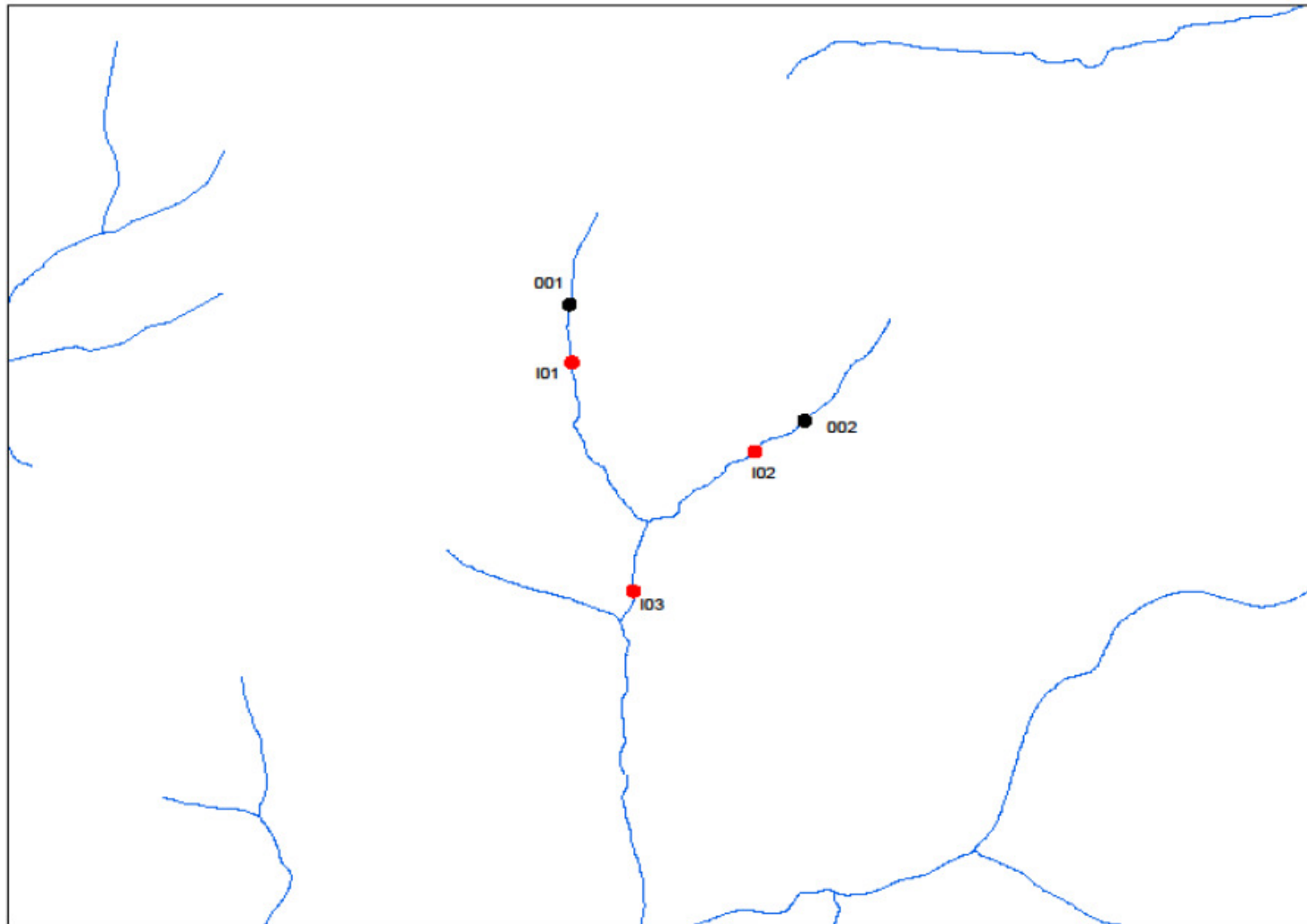
This completed application form and attachments should be emailed to: [SWPBSupport@ky.gov](mailto:SWPBSupport@ky.gov). Questions should be directed to the Surface Water Permits Branch at (502) 564-3410.



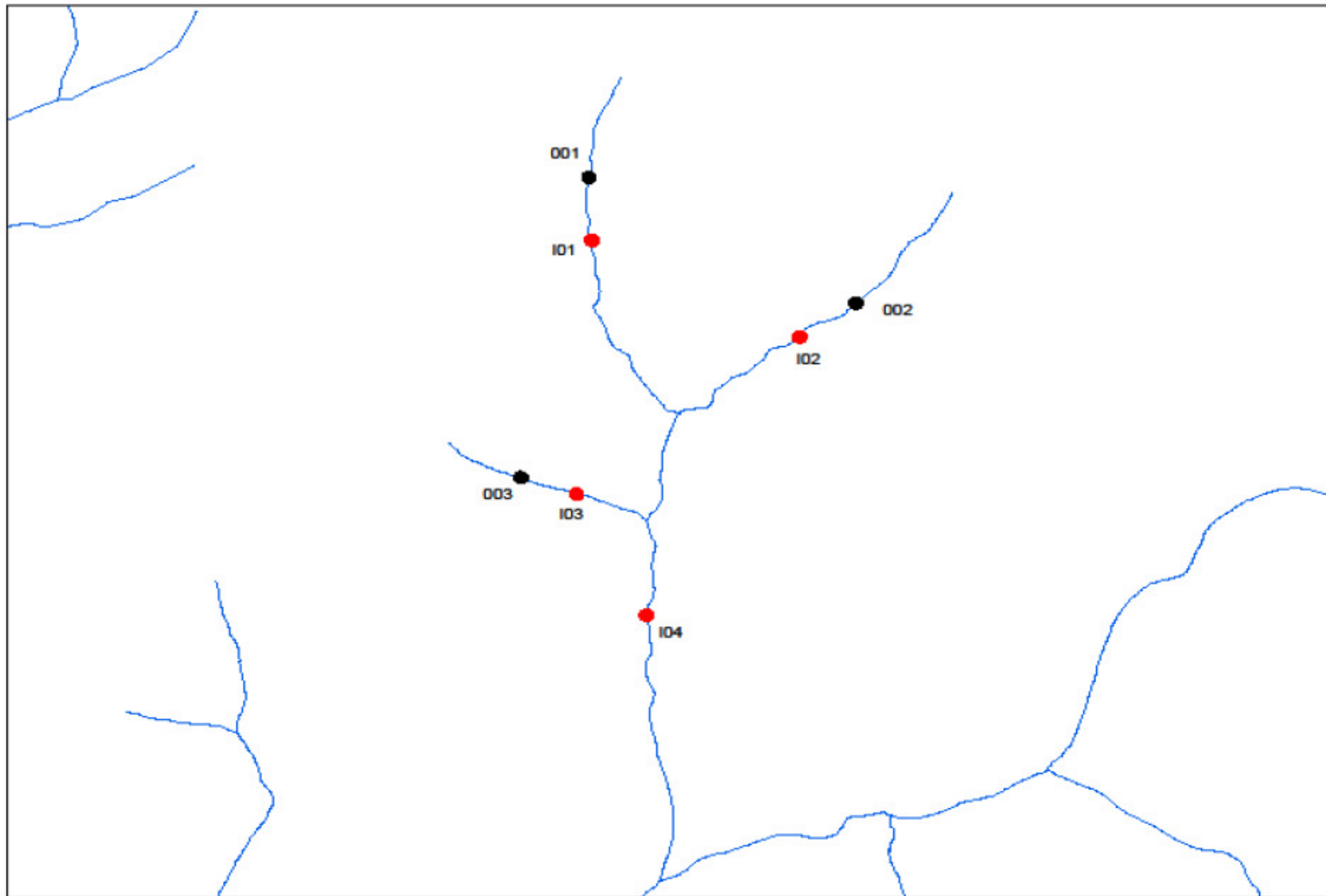
# PMSM Requirements

- Requirements
  - At a minimum, one in-stream monitoring point directly below the outfall along with one downstream monitoring point of the receiving stream located after the confluence but above any tributaries.
  - In-stream identification number: start with I01, I02, I03, etc.
  - Coordinates must be in decimal degrees

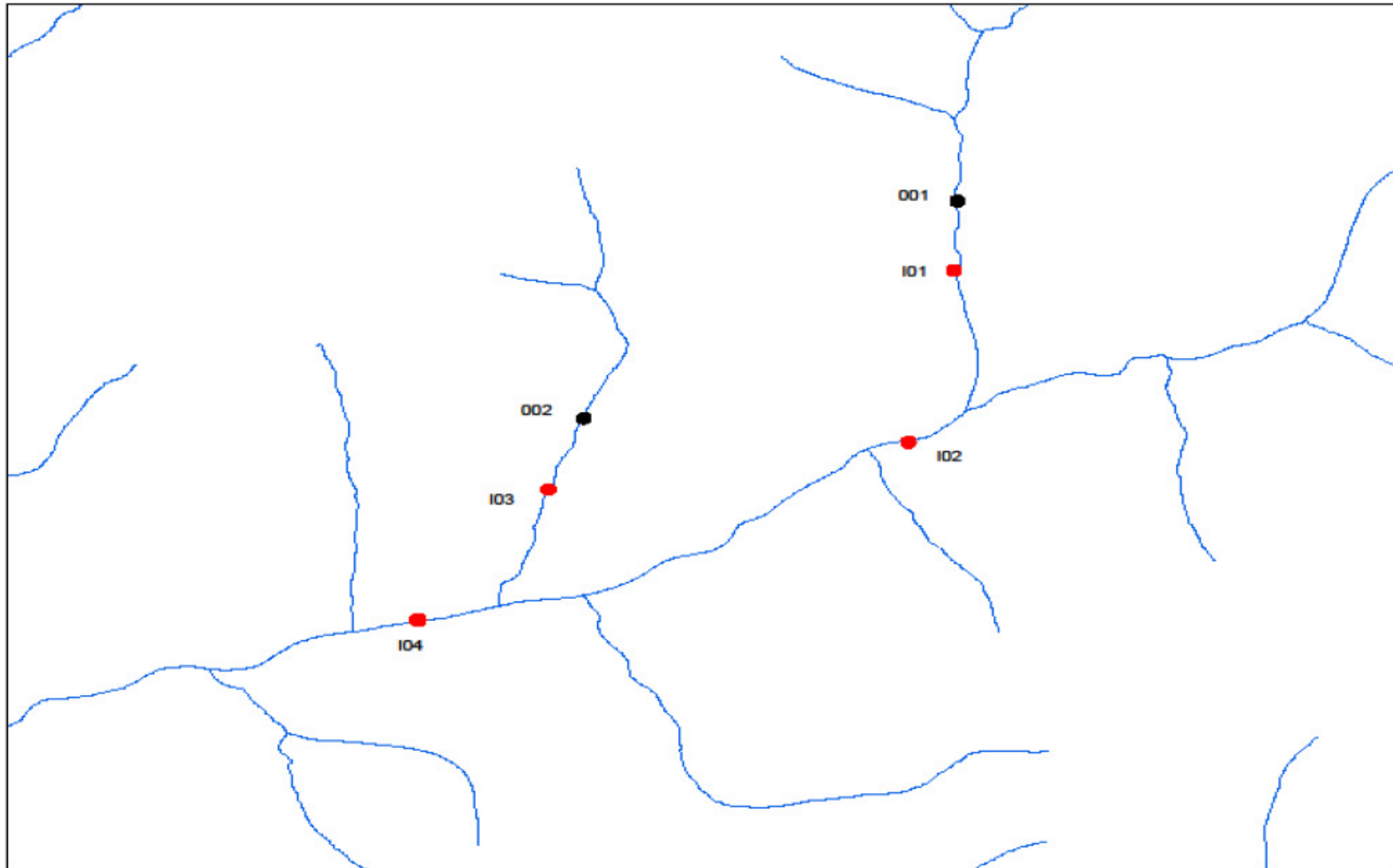
# IMP Sample #1



# IMP Sample #2



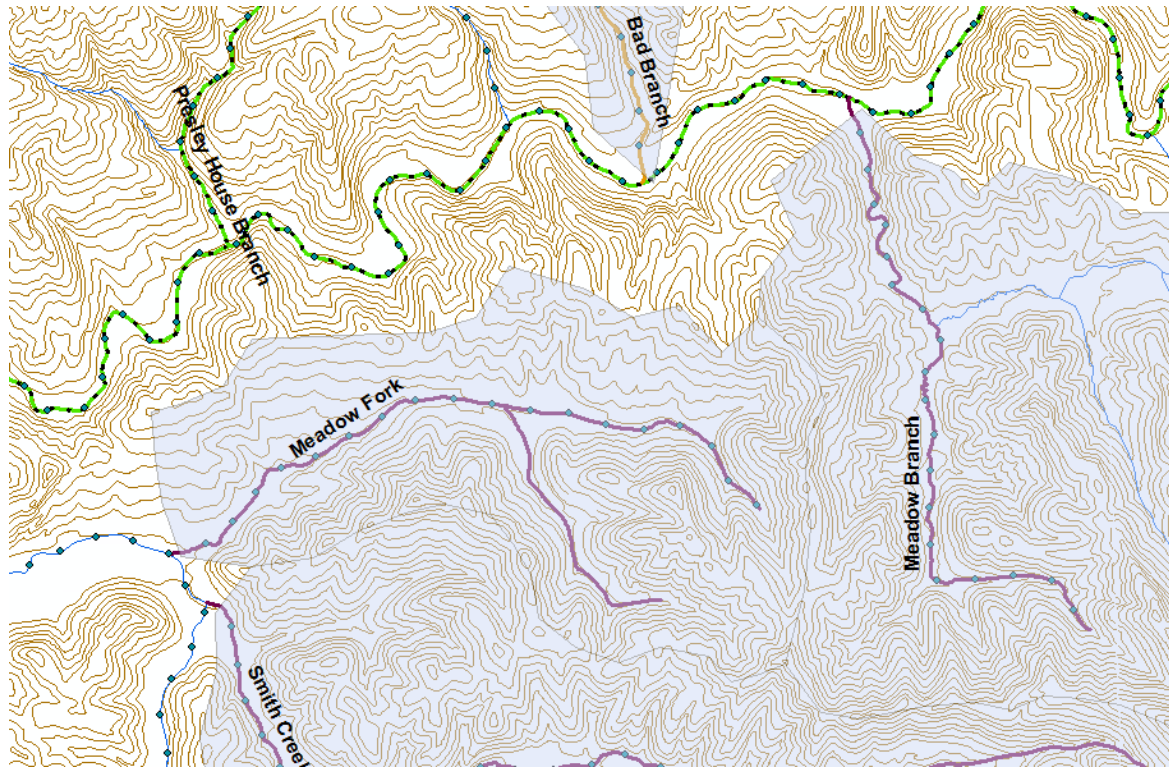
# IMP Sample #3





# OSRW w/ T&E

- OSRW w/ T&E
  - All outfalls must be covered by the in-stream monitoring points and includes non-continuous outfalls.



# PMSM Modifications

- Modifications

- All previously approved in-stream monitoring points that are still required must be in the form.
- Any changes should be highlighted in yellow, such as coordinates, outfalls represented, etc.

# Contact Information

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Surface Waters Permit Branch  
Division of Water  
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